

Patent
10/039,466

LISTING OF THE CLAIMS:

1-21. (Cancelled)

22. (Original) A method of reducing atrial fibrillation, comprising:
inserting a catheter at least partially into the heart, the catheter having a balloon, a portion of
the balloon located in the left atrium and a portion of the balloon located in a pulmonary vein;

inflating the balloon with a perfluorocarbon such that an exterior surface of the balloon is
in contact with at least a partial circumference of the portion of the pulmonary
vein adjacent the left atrium, the perfluorocarbon having a temperature in the
range of about -10°C to -50°C.

23. (Original) The method of claim 22, wherein the balloon has a working region
having a length of between about 5 mm and 10 mm.

24. (Original) The method of claim 22, further comprising:
inserting a wire capable of rupturing the atrial septum from the femoral vein into the right
atrium;
forming a hole using the wire in the interatrial septum between the right atrium and the left
atrium;
inserting a guide catheter into the right atrium;
inserting a guide wire through the guide catheter into the right atrium and further into a
pulmonary vein;
disposing the catheter over the guidewire into a volume defined by the joint of the right
atrium and the pulmonary